Leslie M Kay

List of Publications by Year in Descending Order

56 papers	3,068 citations	30 h-index	55 g-index
65 ext. papers	3,621 ext. citations	5.8 avg, IF	5.63 L-index

#	Paper	IF	Citations
56	Local Field Potentials in Olfaction **2022**, 1886-1895		
55	Transfer of Odor Perception From the Retronasal to the Orthonasal Pathway. *Chemical Senses*, **2021**, 46,	4.8	2
54	Long-Range Respiratory and Theta Oscillation Networks Depend on Spatial Sensory Context. *Journal of Neuroscience*, **2021**, 41, 9957-9970	6.6	0
53	Odor identity can be extracted from the reciprocal connectivity between olfactory bulb and piriform cortex in humans. *NeuroImage*, **2021**, 237, 118130	7.9	4
52	The rhythm of memory: how breathing shapes memory function. *Journal of Neurophysiology*, **2019**, 122, 563-571	3.2	45
51	Pharmacological manipulation of the olfactory bulb modulates beta oscillations: testing model predictions. *Journal of Neurophysiology*, **2018**, 120, 1090-1106	3.2	15
50	The Physiological Foresight in Freeman's Work: Predictions and Verifications. *Journal of Consciousness Studies*, **2018**, 25, 50-63		0
49	Walter J. Freeman: A Tribute. *Neuron*, **2017**, 94, 705-707	13.9	1
48	Task-Dependent Behavioral Dynamics Make the Case for Temporal Integration in Multiple Strategies during Odor Processing. *Journal of Neuroscience*, **2017**, 37, 4416-4426	6.6	11
47	How brains create the world: The dynamical legacy of Walter J Freeman in olfactory system physiology **2017**, 11, 41-47		
46	Gamma and Beta Oscillations Define a Sequence of Neurocognitive Modes Present in Odor Processing. *Journal of Neuroscience*, **2016**, 36, 7750-67	6.6	56
45	Analysis of coherent activity between retrosplenial cortex, hippocampus, thalamus, and anterior cingulate cortex during retrieval of recent and remote context fear memory. *Neurobiology of Learning and Memory*, **2016**, 127, 93-101	3.1	31
44	Granule cell excitability regulates gamma and beta oscillations in a model of the olfactory bulb dendrodendritic microcircuit. *Journal of Neurophysiology*, **2016**, 116, 522-39	3.2	33
43	Olfactory system oscillations across phyla. *Current Opinion in Neurobiology*, **2015**, 31, 141-7	7.6	33
42	Circadian Disruption Alters the Effects of Lipopolysaccharide Treatment on Circadian and Ultradian Locomotor Activity and Body Temperature Rhythms of Female Siberian Hamsters. *Journal of Biological Rhythms*, **2015**, 30, 543-56	3.2	11
41	Granule cell excitability mediates gamma and beta oscillations in a model of the dendrodendritic microcircuit. *BMC Neuroscience*, **2015**, 16,	3.2	78
40	Active Behaviors in Odor Sampling Constrain the Task for Cortical Processing. *Advances in Cognitive Neurodynamics*, **2015**, 491-495		

39	The olfactory bulb theta rhythm follows all frequencies of diaphragmatic respiration in the freely behaving rat. *Frontiers in Behavioral Neuroscience*, **2014**, 8, 214	3.5	61
38	Circuit oscillations in odor perception and memory. *Progress in Brain Research*, **2014**, 208, 223-51	2.9	79
37	Timing at Multiple Scales in Olfactory Perception **2013**, 17-22		1
36	Interplay between sniffing and odorant sorptive properties in the rat. *Journal of Neuroscience*, **2012**, 32, 15577-89	6.6	38
35	Olfactory coding: random scents make sense. *Current Biology*, **2011**, 21, R928-9	6.3	13
34	Rat behavior in go/no-go and two-alternative choice odor discrimination: differences and similarities. *Behavioral Neuroscience*, **2011**, 125, 588-603	2.1	27
33	Beyond Sensory Coding: The Cognitive Context of Olfactory Neurodynamics **2011**, 85-89		
32	A beta oscillation network in the rat olfactory system during a 2-alternative choice odor discrimination task. *Journal of Neurophysiology*, **2010**, 104, 829-39	3.2	103
31	Directional coupling from the olfactory bulb to the hippocampus during a go/no-go odor discrimination task. *Journal of Neurophysiology*, **2010**, 103, 2633-41	3.2	44
30	How global are olfactory bulb oscillations?. *Journal of Neurophysiology*, **2010**, 104, 1768-73	3.2	23
29	Biophysical model for gamma rhythms in the olfactory bulb via subthreshold oscillations. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 21954-9	11.5	61
28	Influence of the olfactory bulbs on blood leukocytes and behavioral responses to infection in Siberian hamsters. *Brain Research*, **2009**, 1268, 48-57	3.7	7
27	Reproductive responses to photoperiod persist in olfactory bulbectomized Siberian hamsters (Phodopus sungorus). *Behavioural Brain Research*, **2009**, 198, 159-64	3.4	9
26	Olfactory oscillations: the what, how and what for. *Trends in Neurosciences*, **2009**, 32, 207-14	13.3	237
25	A critical test of the overlap hypothesis for odor mixture perception. *Behavioral Neuroscience*, **2009**, 123, 430-7	2.1	32
24	Glomerular activation patterns and the perception of odor mixtures. *European Journal of Neuroscience*, **2008**, 27, 2676-85	3.5	39
23	Affective and adrenocorticotrophic responses to photoperiod in Wistar rats. *Journal of Neuroendocrinology*, **2008**, 20, 261-7	3.8	29
22	Olfactory system gamma oscillations: the physiological dissection of a cognitive neural system. *Cognitive Neurodynamics*, **2008**, 2, 179-94	4.2	75

21	Dynamical Architecture of the Mammalian Olfactory System. *Lecture Notes in Computer Science*, **2008**, 67-90	0.9	
20	Olfactory bulb gamma oscillations are enhanced with task demands. *Journal of Neuroscience*, **2007**, 27, 8358-65	6.6	184
19	Chemical factors determine olfactory system beta oscillations in waking rats. *Journal of Neurophysiology*, **2007**, 98, 394-404	3.2	59
18	An olfacto-hippocampal network is dynamically involved in odor-discrimination learning. *Journal of Neurophysiology*, **2007**, 98, 2196-205	3.2	158
17	An argument for an olfactory thalamus. *Trends in Neurosciences*, **2007**, 30, 47-53	13.3	93
16	Rats assess degree of relatedness from human odors. *Physiology and Behavior*, **2007**, 90, 726-32	3.5	17
15	Winter day lengths enhance T lymphocyte phenotypes, inhibit cytokine responses, and attenuate behavioral symptoms of infection in laboratory rats. *Brain, Behavior, and Immunity*, **2007**, 21, 1096-108	16.6	32
14	Information processing in the olfactory systems of insects and vertebrates. *Seminars in Cell and Developmental Biology*, **2006**, 17, 433-42	7.5	93
13	Grading odor similarities in a Go/No-Go task. *Physiology and Behavior*, **2006**, 88, 339-46	3.5	14
12	When good enough is best. *Neuron*, **2006**, 51, 277-8	13.9	17
11	A redefinition of odor mixture quality. *Behavioral Neuroscience*, **2005**, 119, 726-33	2.1	91
10	Theta oscillations and sensorimotor performance. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 3863-8	11.5	130
9	Two minds about odors. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 17569-70	11.5	3
8	A challenge to chaotic itinerancy from brain dynamics. *Chaos*, **2003**, 13, 1057-66	3.3	23
7	Receptor contributions to configural and elemental odor mixture perception. *Behavioral Neuroscience*, **2003**, 117, 1108-14	2.1	41
6	Two species of gamma oscillations in the olfactory bulb: dependence on behavioral state and synaptic interactions. *Journal of Integrative Neuroscience*, **2003**, 2, 31-44	1.5	105
5	Chaotic itinerancy: Insufficient perceptual evidence. *Behavioral and Brain Sciences*, **2001**, 24, 819-820	0.9	2
4	Disruption of GABA(A) receptors on GABAergic interneurons leads to increased oscillatory power in the olfactory bulb network. *Journal of Neurophysiology*, **2001**, 86, 2823-33	3.2	184

3	Odor- and context-dependent modulation of mitral cell activity in behaving rats. *Nature Neuroscience*, **1999**, 2, 1003-9	25.5	311
2	Bidirectional processing in the olfactory-limbic axis during olfactory behavior.. *Behavioral Neuroscience*, **1998**, 112, 541-553	2.1	247
1	Reafference and attractors in the olfactory system during odor recognition. *International Journal of Neural Systems*, **1996**, 7, 489-95	6.2	66